

CLAIMS

1. A mounting bracket assembly (10) for an elevator system guide rail (12) comprising:

5 a mount (18) securable within a hoistway; and
first and second clips (20A,20B) establishing a selectively adjustable clamp dimension (32) for securing the guide rail (12), each of said first and second clips (20A,20B) securable to said mount (18).

10 2. The assembly (10) as recited in claim 1, wherein each clip (20A,20B) comprises a first segment (28) securable to the guide rail (12) and a second segment (30) securable to said mount (18).

15 3. The assembly (10) as recited in claim 2, wherein said first segments (28) each comprise a C-shaped portion, a spacing between said C-shaped portions establishes the clamp dimension (32).

4. The assembly (10) as recited in claim 3, wherein said clamp dimension (32) is selectively adjustable to accommodate the guide rail (12).

20 5. The assembly (10) as recited in claim 2, comprising at least one opening (34) in each said first segment (28) and including a fastening member received at least partially into the openings (34) to secure said first and second clips (20A,20B) in a fixed position relative to each other.

25 6. The assembly (10) as recited in claim 2, wherein each said second segment (30) includes at least one opening (36) and including a securing member (50) at least partially received through said opening (36) to secure said clips (20A,20B) to said mount (18).

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7. The assembly (10) as recited in claim 6, wherein said opening (36) has at least one dimension that is larger than a portion of said securing member (50) received within said opening (36) to allow selected movement of said clips (20A,20B) relative to said mount (18).

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8. The assembly (10) as recited in claim 1, wherein said first and second clips (20A,20B) are mirror images of one another.

9. The assembly (10) as recited in claim 1, wherein said first and second clips (20A, 20B) remain substantially perpendicular during vertical movement of the guide rail (12).

10. An elevator system (11) comprising:
an elevator car (15);
at least one guide rail (12) for guiding movement of the car; and
a mounting bracket assembly (10) for securing said guide rail within a hoistway, said mounting bracket assembly comprising a mount (18) securable in a fixed position, and first and second clips (20A,20B) adjustably secured to the mount and establishing a selectively adjustable clamping dimension (32) for securing the guide rail (12) to the mounting bracket assembly.

11. The system (10) as recited in claim 10, wherein each clip (20A,20B) comprises a first segment (28) securable to the guide rail (12) and a second segment (30) securable to said mount (18) and including open portion facing each other establishing a clamp dimension (32) therebetween.

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12. The assembly (10) as recited in claim 11, wherein said clamp dimension (32) is adjustable to accommodate the guide rail (12).

13. The assembly (10) as recited in claim 11, comprising an opening (34) in said first segments (28) and a fastening member received at least partially through the openings to clamp said first and second clips (20A,20B) about the guide rail (12).

5 14. The assembly (10) as recited in claim 11, wherein each of said second segments (30) include at least one opening (36) and a securing member at least partially received through said opening to secure said clips (20A,20B) to said mount (18).

10 15. The assembly (10) as recited in claim 14, wherein said opening is larger than a portion of said securing member received within said opening to allow selected movement of said clips (20A,20B) relative to said mount.

16. A method of installing a guide rail (12) within a hoistway comprising the steps of:

15 a) positioning a first clip (20A) and a second clip (20B) about a guide rail (12);

b) moving said first and second clips (20A,20B) to a mounting position; securing said first and second clips (20A,20B) to a mount (18);and

20 c) securing said mount (18) in a fixed position.

17. The method as recited in claim 16, comprising aligning the guide rail (12) within the hoistway after the clips are in the mounting position.

25 18. The method as recited in claim 17, comprising sliding the first and second clip (20A,20B) longitudinally along the guide rail (12) to the mounting position.

19. The method as recited in claim 16, comprising adjusting a clamp dimension (32) between said first and second clips (20A,20B).

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20. The method as recited in claim 16, comprising laterally adjusting said first and second clips (20A,20B) relative to said mount (18) to allow lateral positioning of the guide rail (12).

5 21. The method as recited in claim 20, comprising aligning said guide rail (12) by moving said first and second clips (20A,20B) relative to said mount (18).